

Final Reports/Manuals/Training Courses Published by the Applied Meteorology Unit as of 6 November 2003

<i>Primary Author</i>	<i>Title</i>	<i>Date of Publication</i>	<i>NASA Contractor Report #</i>
Bauman, William	Shuttle Imaging Weather Evaluation Concept Study	November 2003	Memorandum
Wheeler, Mark	Severe Weather Event on 4 March 2003	November 2003	Memorandum
Short, David and Mark Wheeler	MiniSODAR™ Evaluation	October 2003	2003-211192
Case, Jonathan	Reference Guide for the Applied Meteorology Unit Source-Code Modifications to ARPS Version 4.5.2	July 2003	Memorandum
Lambert, Winifred	Extend Statistical Short-Range Guidance for Peak Wind Speed Analyses at the Shuttle Landing Facility: Phase II Results	June 2003	2003-211188
Case, Jonathan, John Manobianco, John Lane, and Christopher Immer	A New Objective Technique for Verifying Mesoscale Numerical Weather Prediction Models	May 2003	2003-211187
Lambert, Winifred	Analysis of Rain Measurements in Support of the STS-107 Investigation	April 2003	Memorandum
Case, Jonathan	LDIS Optimization and Training Task Summary	March 2003	Memorandum
Case, Jonathan	Reference Guide for the Real-Time ADAS at the Spaceflight Meteorology Group in Houston, TX	March 2003	Manual
Case, Jonathan	Reference Guide for the Real-Time ADAS at Melbourne, FL	March 2003	Manual
Short, David, and Mark Wheeler	Extend AMPS Moisture Analysis	March 2003	Memorandum
Wheeler, Mark, and David Short	Phase III: Improved Anvil Forecasting	February 2003	Memorandum
Case, Jonathan	Near Storms Environment Task Summary	January 2003	Memorandum
Case, Jonathan, and Mark Wheeler	Final Report on Land-Breeze Forecasting	December 2002	2002-211181
Lambert, Winifred	Statistical Short-Range Guidance for Peak Wind Speed Forecasts on Kennedy Space Center/Cape Canaveral Air Force Station: Phase I Results	November 2002	2002-211180

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Short, David, and Mark Wheeler	AMPS Moisture Analysis	July 2002	Memorandum
Short, David, and Mark Wheeler	Improved Anvil Forecasting: Phase II Final Report	April 2002	2002-211170
Dianic, Allan	Low Temperature Recovery Forecast Tool	April 2002	Memorandum
Case, Jonathan	Improvements to the Real-time ADAS at SMG and NWS MLB	November 2001	Memorandum
Case, Jonathan, and Allan Dianic	ERDAS RAMS Data Transfer Mechanism	May 2001	Memorandum
Lambert, Winifred	Statistical Short-Range Forecast Guidance for Cloud Ceilings Over the Shuttle Landing Facility	August 2001	2001-210264
Wheeler, Mark, and John Manobianco	Updated Neumann-Pfeffer Thunderstorm Probability Index	June 2001	Memorandum
Case, Jonathan	Final Report on the Evaluation of the Regional Atmospheric Modeling System in the Eastern Range Dispersion Assessment System	June 2001	2001-210259
Short, David	Phase II: SIGMET IRIS Processor Evaluation Task	April 2001	Memorandum
Case, Jonathan	Implementation of a Real-Time LDIS at SMG and NWS MLB	February 2001	Memorandum
Evans, Randolph J.	Delta II Explosion Plume Analysis Report	2000	2000-208582
Case, Jonathan	Interim Report on the Evaluation of the Regional Atmospheric Modeling System in the Eastern Range Dispersion Assessment System	2000	2000-208576
Short, David, and Mark Wheeler	Exploit NEXRAD: Extended Evaluation of Core Aspect Ratio	November 2000	Memorandum
Wheeler, Mark	Detecting Chaff Source Regions	August 2000	Memorandum
Lambert, Winifred C	Improved Anvil Forecasting: Phase I Final Report	2000	2000-208573
Short, David	Final Report on IRIS Product Recommendations	2000	2000-208572
Case, Jonathan	Simulation of a Real-time Local Data Integration System over East-Central Florida	November 1999	1999-208558

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Manobianco, John, and Robert Palmblad	Final Report on Evaluation of Wind Profiler Data	1999	1999-208556
Ebersole, D., Francis J. Merceret and B. Smith	The Doppler Radar Wind Profiler Project: Vector Analysis of Wind Changes Affecting Shuttle Launch at the Kennedy Space Center	1999	NASA-AMATYC-NSF.C.T
Merceret, Francis J.	Estimating the Effect of Sensor Spacing on Peak Wind Measurements at Launch Complex 39	March 1999	TM-1999-208544
Manobianco, John and Case, Jonathan	Final Report on Prototype Local Data Integration System and Central Florida Data Deficiency	January 1999	1998-208540
Nutter, Paul and Manobianco, John	An Extended Objective Evaluation of the 29-km Eta Model for Weather Support to the United States Space Program	July 1998	1998-207910
Lambert, Winifred C. and Taylor, Gregory	Data Quality Assessment Methods for the Eastern Range 915 MHz Wind Profiler Network	June 1998	1998-207906
Wheeler, Mark M.	WSR-88D Cell Trends Final Report	May 1998	207904
Wheeler, Mark M.	1997 MDPI Results Memorandum	November 1997	Memorandum
Manobianco, John and Nutter, Paul	Evaluation of the 29-km Eta Model for Weather Support to the United States Space Program	September 1997	205409
Lambert, Winifred C.	LDAR Data Compression and Reduction	May 1997	
Wheeler, Mark M.	Report on the Radar/PIREP Cloud Top Discrepancy Study	April 1997	204381
Wheeler, Mark M.	Final Report on the Weather Events on 13 August 1996	March 1997	-
Lambert, Winifred C. and Wheeler, Mark M.	Final Report on the AMU NEXRAD Exploitation Task	January 1997	203009
Rosati, Lou	Final Report on the Cost-Benefit Study for the SLF Meteorological Equipment	November 1996	-
Drape, Gaylen and Yersavich, Ann	Lightning Detection And Ranging (LDAR) Computer Based Training Course Version 1.1	July 1996	-
Lambert, Winifred C.	Software Test Procedures for MSFC Wind Algorithm in NASA's 50 MHz Doppler Radar Wind Profiler Revision 2	June 1996	-

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Lambert, Winifred C.	Test Report for the Modifications to the Display Software in NASA's 50 MHz Doppler Radar Wind Profiler Revision 2	June 1996	-
Lambert, Winifred C.	Maintenance Manual for the MSFC Wind Algorithm Software in NASA's 50 MHz Doppler Radar Profiler Revision 2	June 1996	-
Lambert, Winifred C.	User's Manual for the MSFC Wind Algorithm in NASA's 50 MHz Doppler Radar Profiler Revision 2	June 1996	-
Lambert, Winifred C.	Software Requirements Specification for the New Wind Algorithm in NASA's 50 MHz Doppler Radar Wind Profiler Revision 2	June 1996	
Evans, Randolph J.	Final Report on the Evaluation of the Emergency Response Dose Assessment System (ERDAS)	June 1996	201353
Wheeler, Mark M.	Verification and Implementation of Microburst Day Potential Index (MDPI) and Wind INDEX (WINDEX) Forecasting Tools at Cape Canaveral Air Station	June 1996	201354
Manobianco, John T.	Report on the Installation and Evaluation of the Mesoscale Atmospheric Simulation System (MASS)	May 1996	201151
Schumann, Robin S.	Maintenance Manual for F-Key Menu Systems the AMU Developed for the MIDDs	February 1996	-
Merceret, Francis J.	The Effect of Sensor Sheltering and Averaging Techniques on Wind Measurements at the Shuttle Landing Facility	October 1995	111262
Merceret, Francis J.	The Effect of Sensor Spacing on Wind Measurements at the Shuttle Landing Facility	January 1995	3529
Schumann, Robin S.	Artificial Neural Network to Forecast Short-Term Cloud Cover	July 1994	-
Taylor, Gregory E.	Report on the Comparison of the Scan Strategies Employed by the Patrick Air Force Base WSR-74C/McGill Radar and the NWS Melbourne WSR-88D Radar	July 1994	196291
Wheeler, Mark M.	Final Report on the Analysis of Rapidly Developing Fog at the Kennedy Space Center	May 1994	195888

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Yersavich, Ann M.	Final Report on the Evaluation of ASOS for the Kennedy Space Center's Shuttle Landing Facility	March 1994	195685
Schumann, Robin S.	Software Test Procedures for MSFC Wind Algorithm in NASA's 50 MHz Doppler Radar Wind Profiler	February 1994	-
Schumann, Robin S.	Test Report for the New Wind Algorithm Software in NASA's 50 MHz Doppler Radar Wind Profiler	February 1994	-
Schumann, Robin S.	Maintenance Manual for the MSFC Wind Algorithm Software in NASA's 50 MHz Doppler Radar Profiler	February 1994	-
Schumann, Robin S.	User's Manual for the MSFC Wind Algorithm in NASA's 50 MHz Doppler Radar Profiler	February 1994	-
Taylor, Gregory E.	Final Report on the Implementation and Evaluation of the New Wind Algorithm in NASA's 50 MHz Doppler Radar Wind Profiler	December 1993	194880
Atchison, M. Kevin	Shuttle Landing Facility Cloud Cover Study: Climatological Analysis and Two-Tenths Cloud Cover Rule Evaluation	May 1993	193016
Atchison, M. Kevin	Analysis of a Wintertime Northeast Flow Case at KSC	April 1993	-
Schumann, Robin S.	Software Requirements Specification for the New Wind Algorithm in NASA's 50 MHz Doppler Radar Wind Profiler	April 1993	-
Atchison, M. Kevin	STS-48 Case Study 17-18 September 1991	March 1992	190147